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Substitute for form 1449/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 1

**Complete if Known**

Application Number	10/542,958	
Filing Date	January 23, 2004 (I.A.)	
First Named Inventor	William R. Jacobs, Jr.	
Art Unit	not yet determined	1645
Examiner Name	not yet determined	Swartz
Attorney Docket Number	06700/1031	

Examiner Signature	/Rodney Swartz/	Date Considered	03/30/2008
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(Use as many sheets as necessary)				Filing Date	January 23, 2004 (I.A.)
				First Named Inventor	William R. Jacobs, Jr.
				Art Unit	<del>not yet determined</del> 1645
				Examiner Name	<del>not yet determined</del> Swartz
Sheet	2	of	5	Attorney Docket Number	
96700/1031					

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/RS/	5	ANDERSEN, P., "Host Responses and Antigens Involved in Protective Immunity to <i>Mycobacterium tuberculosis</i> "; <i>Scand. J. Immunol.</i> 1997, pp.115-31, Vol. 45.			
/RS/	6	ANDERSEN, P., et al., "Proteins Released from <i>Mycobacterium tuberculosis</i> during Growth"; <i>Infection and Immunity</i> , June 1991, pp. 1905-10, Vol. 59, No. 6.			
/RS/	7	BEHR, M.A., et al., "Comparative Genomics of BCG Vaccines by Whole-Genome DNA Microarray"; <i>Science</i> , May 28, 1999, pp. 1520-23, Vol. 284.			
/RS/	8	CAMACHO, L.R., et al., "Identification of a virulence gene cluster of <i>Mycobacterium tuberculosis</i> by signature-tagged transposon mutagenesis"; <i>Molecular Microbiology</i> , 1999, pp. 257-67, Vol. 34.			
/RS/	9	CHAMBERS, M.A., et al., "Identification of a <i>Mycobacterium bovis</i> BCG Auxotrophic Mutant That Protects Guinea Pigs against <i>M. bovis</i> and Hematogenous Spread of <i>Mycobacterium tuberculosis</i> without Sensitization to Tuberculin"; <i>Infection and Immunity</i> , Dec. 2000, pp. 7094-99, Vol. 68, No. 12.			
/RS/	10	COLE, S.T., et al., "Deciphering the biology of <i>Mycobacterium tuberculosis</i> from the complete genome sequence"; <i>Nature</i> , June 11, 1998, pp. 537-44 + table pages, Vol. 393.			
/RS/	11	COX, J., et al., "Complex lipid determines tissue-specific replication of <i>Mycobacterium tuberculosis</i> in mice"; <i>Nature</i> , Nov. 4, 1999, pp. 79-83, Vol. 402.			
/RS/	12	DASCHER C.C. et al., "Immunization with a mycobacterial lipid vaccine improves pulmonary pathology in the guinea pig model of tuberculosis"; <i>International Immunology</i> , Aug. 2003, pp. 915-25, Vol. 15, No. 8.			
/RS/	13	DE VOSS, J.J., et al. "The salicylate-derived mycobactin siderophores of <i>Mycobacterium tuberculosis</i> are essential for growth in macrophages"; <i>PNAS</i> , Feb. 1, 2000, pp. 1252-57, Vol. 97, No. 3.			
/RS/	14	GLICKMAN, M.S., et al., "The <i>Mycobacterium tuberculosis</i> cmaA2 Gene Encodes a Mycolic Acid trans-Cyclopropane Synthetase"; <i>The Journal of Biological Chemistry</i> , Jan. 19, 2001, pp. 2228-33, Vol. 276, No. 3.			

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				First Named Inventor	William R. Jacobs, Jr.
				Art Unit	not yet determined 1645
				Examiner Name	not yet determined Swartz
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/RS/	15	GORDON, S.V., et al., "Genomics of <i>Mycobacterium bovis</i> "; <i>Tuberculosis</i> , 2001, pp. 157-63, Vol. 81(1/2).		
/RS/	16	GULERIA, I., et al., "Auxotrophic vaccines for tuberculosis"; <i>Nature Medicine</i> , March 1996, pp. 334-37, Vol. 2, No. 3.		
/RS/	17	HARBOE M. et al., "Evidence for Occurance of the ESAT-6 Protein in <i>Mycobacterium tuberculosis</i> and Virulent <i>Mycobacterium bovis</i> and for Its Absence in <i>Mycobacterium bovis BCG</i> "; <i>Infection and Immunity</i> , Jan. 1996, pp 16-22, Vol. 64, No. 1.		
/RS/	18	HERNANDEZ-PANDO R. et al., "Pathogenesis of Tuberculosis in Mice Exposed to Low and High Doses of an Environmental Mycobacterial Saprophyte before Infection"; <i>Infection and Immunity</i> , Aug. 1997, pp. 3317-27, Vol. 65, No. 8.		
/RS/	19	HONDALUS, M.K., et al., "Attenuation of and Protection Induced by a Leucine Auxotroph of <i>Mycobacterium tuberculosis</i> "; <i>Infection and Immunity</i> , May 2000, pp. 2888-98, Vol. 68, No. 5.		
/RS/	20	HSU, T., et al., "The primary mechanism of attenuation of <i>bacillus Calmette-Guérin</i> is a loss of secreted lytic function required for invasion of lung interstitial tissue"; <i>PNAS</i> , October 2003, pp. 1240-25, Vol. 100, No. 21.		
/RS/	21	JACKSON, M., et al., "Persistence and Protective Efficacy of a <i>Mycobacterium tuberculosis</i> Auxotroph Vaccine"; <i>Infection and Immunity</i> , June 1999, pp. 2867-73, Vol. 67, No. 6.		
/RS/	22	LADEL, C.H., et al., "Immune response to <i>Mycobacterium bovis</i> bacille Calmette Guérin infection in major histocompatibility complex class I- and II-deficient knock-out mice: contribution of CD4 and CD8 T cells to acquired resistance"; <i>Eur. J. Immunol.</i> , 1995, pp. 377-384, Vol. 25.		
/RS/	23	MAHAIRAS, G.G., et al., "Molecular Analysis of Genetic Differences between <i>Mycobacterium bovis BCG</i> an Virulent <i>M. bovis</i> "; <i>Journal of Bacteriology</i> , March 1996, pp. 1274-82, Vol. 178, No. 5.		
/RS/	24	MANCA, C., et al., "Virulence of a <i>Mycobacterium tuberculosis</i> clinical isolate in mice is determined by failure to induce Th1 type immunity and is associated with induction of IFN-alpha/beta"; <i>PNAS</i> , May 8, 2001, pp. 5752-57, Vol. 98, No. 10.		

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				Art Unit	not yet determined 1645
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/RS/	25	MCKINNEY, J.D., et al., "Persistence of Mycobacterium tuberculosis in macrophages and mice requires the glyoxylate shunt enzyme isocitrate lyase"; Nature, Aug. 17, 2000, pp. 735-38, Vol. 406			
/RS/	26	MOGUES, T., et al., "The Relative Importance of T Cell Subsets in Immunity and Immunopathology of Airborn Mycobacterium tuberculosis Infection in Mice"; J. Exp. Med., Feb. 2001, pp. 271-280, Vol. 193, No. 3.			
/RS/	27	MOREIRA A.L. et al., "Mycobacterial Antigens Exacerbate Disease Manifestations in Mycobacterium tuberculosis-Infected Mice"; Infection and Immunity, Apr. 2002, pp 2100-07, Vol. 70, No. 4.			
/RS/	28	PAVELKA, JR., M.S. and JACOBS, JR., W.R., "Comparison of the Construction of Unmarked Deletion Mutations in Mycobacterium smegmatis, Mycobacterium bovis, Bacillus Calmette-Guerin, and Mycobacterium tuberculosis H37Rv by Allelic Exchange", Journal of Bacteriology, Aug. 1999, pp. 4780-89, Vol. 181, No. 16.			
/RS/	29	SAMBANDAMURTHY V.K. et al., "A pantothenate auxotroph of Mycobacterium tuberculosis is highly attenuated and protects mice against tuberculosis"; Nature Medicine, Oct. 2002, pp. 1171-74, Vol. 8, No. 10.			
/RS/	30	SAMBANDAMURTHY V.K. et al., "Long-Term Protection against Tuberculosis following Vaccination with a Severely Attenuated Double Lysine and Pantothenate Auxotroph of Mycobacterium tuberculosis"; Infection and Immunity, Feb. 2005, pp. 1196-203, Vol. 73, No. 2.			
/RS/	31	SAMPSON S.L. et al., "Protection Elicited by a Double Leucine and Pantothenate Auxotroph of Mycobacterium tuberculosis in Guinea Pigs"; Infection and Immunity, May 2004, pp. 3031-37, Vol. 72, No. 5.			
/RS/	32	SKINNER M.A. et al., "A DNA prime-live vaccine boost strategy in mice can augment IFN-gamma responses to mycobacterial antigens but does not increase the protective efficacy of two attenuated strains of Mycobacterium bovis against bovine tuberculosis"; Immunology, Apr. 2003, pp. 548-55, Vol. 108, No. 4.			
/RS/	33	SLYSHENKOV, V.S., et al., "Pantothenic Acid and Its Derivatives Protect Ehrlich Ascites Tumor Cells Against Lipid Peroxidation"; Free Radical Biology & Medicine, 1995, pp. 767-72, Vol. 19, No. 6.			
/RS/	34	SMITH, D.A., et al. "Characterization of Auxotrophic Mutants of Mycobacterium tuberculosis and Their Potential as Vaccine Candidates"; Infection and Immunity, Feb. 2001, pp. 1142-50, Vol. 69, No. 2.			

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/RS/	35	TAYLOR, J.L., et al., "Pulmonary Necrosis Resulting from DNA Vaccination against Tuberculosis"; Infection and Immunity, Apr. 2003, pp. 2192-98, Vol. 71, No. 4.		
/RS/	36	WEBER, I., et al., "Anaerobic nitrate reductase (narGHJI) activity of <i>Mycobacterium bovis</i> BCG in vitro and its contribution to virulence in immunodeficient mice"; Molecular Microbiology, 2000, pp. 1017-25, Vol. 35, No. 5.		

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